PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2018-04-02-14**	**Date: 05-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore	
Address	:	Vidyaranyapura Sub Division, Bangalore	
Project Name	:	Pacakage No. 04 (Package consists of 28 works)	
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013	
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	02-04-18	
Sample ID No	:	2018-04-02-14/01	
Type of Mix	:	BM (Bituminous Macadam)	
Date of test	:	02-04-18	

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	10.8	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	8.5		
Strength	Aggregate Impact Value	22.6	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.52	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	1.81	Maximum 2%	IS:2386 Part III

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2018-04-02-13**	**Date: 05-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore	
Address	:	Vidyaranyapura Sub Division, Bangalore	
Project Name	:	Pacakage No. 04 (Package consists of 28 works)	
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013	
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	02-04-18	
Sample ID No	:	2018-04-02-13/01	
Type of Mix	:	BM (Bituminous Macadam)	
Date of test	:	02-04-18	

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.9	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	10.2		
Strength	Aggregate Impact Value	24.1	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.5	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	1.66	Maximum 2%	IS:2386 Part III

Note:

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2018-04-02-13 **Date: 04-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Package No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-04-18
Sample ID No	:	2018-04-02-13/01
Type of Mix	:	BM-Plant (Bituminous Macadam)
Date of test		02-04-18
Weight of Sample(gm)	:	5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	300	300	6.0	94.0	90-100
13.2	1400	1700	34.0	66.0	56-88
4.75	1750	3450	69.0	31.0	16-36
2.36	600	4050	81.0	19.0	4-19
0.3	500	4550	91.0	9.0	2-10
0.075	150	4700	94.0	6.0	0-8
PAN	300	5000	100.0	0.0	0

Note:-
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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-04-02-14**	**Date: 04-04-18**
Customer	:	Executive Engineer, Byatarayanapura Sub Division, Bangalore	
Address	:	Byatarayanapura Sub Division, Bangalore	
Project Name	:	Pacakage No. 04 (Package consists of 28 works)	
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013	
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	02-04-18	
Sample ID No	:	2018-04-02-14/01	
Type of Mix	:	BM-Plant (Bituminous Macadam)	
Date of test		02-04-18	
Weight of Sample(gm)	:	5000	

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	300	300	6.0	94.0	90-100
13.2	600	900	18.0	82.0	56-88
4.75	2700	3600	72.0	28.0	16-36
2.36	500	4100	82.0	18.0	4-19
0.3	400	4500	90.0	10.0	2-10
0.075	150	4650	93.0	7.0	0-8
PAN	350	5000	100.0	0.0	0

Note:-
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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-04-02-13** **Date: 07-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	02-04-18
Sample ID No	:	2018-04-02-13/01
Type of Mix	:	BM (Bituminous Mecadam)
Date of test	:	04-04-18

The results of the tests conducted on the Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	13.27	10.84	9KN(Min)
2	Marshal flow at 60°C, mm	3.38	3.19	2-4
3	Percent air Voids	3.09	3.08	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.84	13.58	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.97	69.12	65-75
6	Density, g/cc	2.42	2.40	–

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-04-02-13** **Date: 07-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-04-18
Sample ID No	:	2018-04-02-13/01
Type of Mix	:	BM(Bituminous Macadam)
Date of test	:	04-04-18

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-6
1	99.3	0.7	98.0	Minimum Retained Coating 95%
2	97.6	2.4		
3	97.2	2.8		

Note:
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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2018-05-02-09** **Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-09/01
Type of Mix	:	BM (Bituminous Macadam)
Date of test	:	02-05-18

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	10.8	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	15.8		
Strength	Aggregate Impact Value	18.5	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.53	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	1.05	Maximum 2%	IS:2386 Part III

Note:

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2018-05-02-08**	**Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore	
Address	:	Vidyaranyapura Sub Division, Bangalore	
Project Name	:	Pacakage No. 04 (Package consists of 28 works)	
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013	
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	02-05-18	
Sample ID No	:	2018-05-02-08/01	
Type of Mix	:	BM (Bituminous Macadam)	
Date of test	:	02-05-18	

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	14.9	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	13.6		
Strength	Aggregate Impact Value	18.3	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.56	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.94	Maximum 2%	IS:2386 Part III

Note:

The results pertain to the samples received and tested.
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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2018-05-02-10** **Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-10/01
Type of Mix	:	BM (Bituminous Macadam)
Date of test	:	02-05-18

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	15.5	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	14.5		
Strength	Aggregate Impact Value	23.4	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.55	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	1.66	Maximum 2%	IS:2386 Part III

Note:

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All information furnished by Customer/Representative

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-05-02-08** **Date: 04-05-18**
Customer	:	Executive Engineer, Byatarayanapura Sub Division, Bangalore
Address	:	Byatarayanapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-08/01
Type of Mix	:	BM-Plant (Bituminous Macadam)
Date of test		02-05-18
Weight of Sample(gm)	:	5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	400	400	8.0	92.0	90-100
13.2	1250	1650	33.0	67.0	56-88
4.75	1600	3250	65.0	35.0	16-36
2.36	1500	4750	95.0	5.0	4-19
0.3	0	4750	95.0	5.0	2-10
0.075	250	5000	100.0	0.0	0-8
PAN	0	5000	100.0	0.0	0

Note:-
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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-05-02-10** **Date: 04-05-18**
Customer	:	Executive Engineer, Byatarayanapura Sub Division, Bangalore
Address	:	Byatarayanapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-10/01
Type of Mix	:	BM-Plant (Bituminous Macadam)
Date of test		02-05-18
Weight of Sample(gm)	:	5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	350	350	7.0	93.0	90-100
13.2	550	900	18.0	82.0	56-88
4.75	2350	3250	65.0	35.0	16-36
2.36	1100	4350	87.0	13.0	4-19
0.3	300	4650	93.0	7.0	2-10
0.075	100	4750	95.0	5.0	0-8
PAN	250	5000	100.0	0.0	0

Note:-
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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-05-02-09** **Date: 04-05-18**
Customer	:	Executive Engineer, Byatarayanapura Sub Division, Bangalore
Address	:	Byatarayanapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-09/01
Type of Mix	:	BM-Plant (Bituminous Macadam)
Date of test		02-05-18
Weight of Sample(gm)	:	5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	50	50	1.0	99.0	90-100
13.2	1250	1300	26.0	74.0	56-88
4.75	2750	4050	81.0	19.0	16-36
2.36	150	4200	84.0	16.0	4-19
0.3	400	4600	92.0	8.0	2-10
0.075	400	5000	100.0	0.0	0-8
PAN	0	5000	100.0	0.0	0

Note:-
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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-05-02-08** **Date: 07-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-08/01
Type of Mix	:	BM (Bituminous Mecadam)
Date of test	:	04-05-18

The results of the tests conducted on the Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	12.32	13.78	9KN(Min)
2	Marshal flow at 60°C, mm	2.03	2.26	2-4
3	Percent air Voids	4.99	4.93	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.98	13.74	13-15
5	Percent Voids filled with Bitumen(VFB %)	74.61	66.03	65-75
6	Density, g/cc	2.42	2.40	–

Note:-

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Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

End of Report

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-05-02-08** **Date: 07-05-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-08/01
Type of Mix	:	BM(Bituminous Macadam)
Date of test	:	04-05-18

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-6
1	97.6	2.4	97.6	Minimum Retained Coating 95%
2	97.4	2.6		
3	97.8	2.2		

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2018-03-29-12** **Date: 31-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer's Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-18
Sample ID No	:	2018-03-29-12/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	29-03-18

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**63**	60 to 70
2	Softening Point, °C	**42.2**	Min. 40°C
3	Ductility, cm	**95**	Min. 75cm
4	Flash point, °C	**229**	Min. 220°C
	Fire point, °C	**256**	

Note:
The results pertain to the samples received and tested.
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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE/WD

****End of Report****

CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2018-04-27-07** **Date: 29-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, Bangalore
Address	:	Vidyaranyapura Sub Division, Bangalore
Project Name	:	Pacakage No. 04 (Package consists of 28 works)
Agency	:	M/s. Ram and company, Sri. C R GIRISH, No. 12, Patel Pillegowda layout, Ramachandrapura, Bangalore- 560013
Customer's Reference	:	BBMP/EE/BTP/WO/129/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-18
Sample ID No	:	2018-04-27-07/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	27-04-18

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**66**	60 to 70
2	Softening Point, °C	**40.6**	Min. 40°C
3	Ductility, cm	**92**	Min. 75cm
4	Flash point, °C	**226**	Min. 220°C
	Fire point, °C	**252**	

Note:
The results pertain to the samples received and tested.
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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

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